In the Claims:

1. (Original) A method for transporting traffic having disparate qualities of service across a packet-switch network, comprising:

receiving at an ingress point of a network a plurality of packets each comprising a quality of service (QoS) class defined externally to the network;

combining packets having a QoS class comprising delay bound guarantees and a low drop priority into a first internal QoS class;

combining packets having a QoS class comprising a flexible drop priority and no delay bound guarantees into a second internal QoS class;

combining packets having a QoS class comprising no delivery guarantees into a third internal QoS class; and

transporting the packets through the network based on their internal QoS classes.

- 2. (Original) The method of Claim 1, wherein the first internal QoS class comprises a guaranteed service class, further comprising combining into the guaranteed service class packets having an externally defined integrated services guaranteed service QoS and a differentiated services expedited forwarding QoS.
- 3. (Original) The method of Claim 1, wherein the second internal QoS class comprises a control load class, further comprising combining into the control load class packets having an externally defined integrated services control load QoS and a differentiated services assured forwarding 1, 2 and 3 QoS.
- 4. (Original) The method of Claim 1, wherein the third internal QoS class comprises a best-effort class, further comprising combining into the best-effort class packets having a differentiated services assured forwarding 4 QoS and a differentiated services best-effort QoS.
- 5. (Original) The method of Claim 1, wherein the packets combined into the first internal QoS class comprise low latency delay-bound guarantees.

- 6. (Original) The method of Claim 1, further comprising generating a label for each packet including the internal QoS class for the packet and transporting the packet through the network using the label.
- 7. (Original) The method of Claim 1, wherein the packets comprise internet protocol (IP) packets.
- 8. (Original) The method of Claim 1, wherein packets combined into the first internal QoS class comprise real-time data.
- 9. (Original) The method of Claim 1, wherein the packets combined into the first internal QoS class comprise real-time voice data.

10. (Original) A system for transporting traffic having disparate qualities of service across a packet-switch network, comprising:

means for receiving at an ingress point of a network a plurality of packets each comprising a quality of service (QoS) class defined externally to the network;

means for combining packets having a QoS class comprising delay bound guarantees and a low drop priority into a first internal QoS class;

means for combining packets having a QoS class comprising a flexible drop priority and no delay bound guarantees into a second internal QoS class;

means for combining packets having a QoS class comprising no delivery guarantees into a third internal QoS class; and

means for transporting the packets through the network based on their internal QoS classes.

- 11. (Original) The system of Claim 10, wherein the first internal QoS class comprises a guaranteed service class, further comprising means for combining into the guaranteed service class packets having an externally defined integrated services guaranteed service QoS and a differentiated services expedited forwarding QoS.
- 12. (Original) The system of Claim 10, wherein the second internal QoS class comprises a control load class, further comprising means for combining into the control load class packets having an externally defined integrated services control load QoS and a differentiated services assured forwarding 1, 2 and 3 QoS.
- 13. (Original) The system of Claim 10, wherein the third internal QoS class comprises a best-effort class, further comprising means for combining into the best-effort class packets having a differentiated services assured forwarding 4 QoS and a differentiated services best-effort OoS.
- 14. (Original) The system of Claim 10, wherein the packets combined into the first internal QoS class comprise low latency delay-bound guarantees.

- 15. (Original) The system of Claim 10, further comprising means for generating a label for each packet including the internal QoS class for the packet and transporting the packet through the network using the label.
- 16. (Original) The system of Claim 10, wherein the packets comprise internet protocol (IP) packets.
- 17. (Original) The system of Claim 10, wherein packets combined into the first internal QoS class comprise real-time data.
- 18. (Original) The system of Claim 10, wherein the packets combined into the first internal QoS class comprise real-time voice data.

19. (Original) A system for transporting traffic having disparate qualities of service across a packet-switch network, comprising:

logic encoded in media; and

the logic operable to receive at an ingress point of a network a plurality of packets each comprising a quality of service (QoS) class defined externally to the network, to combine packets having a QoS class comprising delay-bound guarantees and a low drop priority into a first internal QoS class, to combine packets having a QoS class comprising a flexible drop priority and no delay bound into a second internal QoS class, and to combine packets having a QoS class comprising no delivery guarantees into a third internal QoS class.

20. (Currently Amended) A local interface for a packet-switched network node, comprising:

a port operable to receive a plurality of packets each comprising a quality of service (QoS) class defined externally to a network of the node and to eombined combine packets having QoS classes comprising delay-bound guarantees and a low drop priority into a first internal QoS class, to combine packets having a QoS class comprising a flexible-drop priority and no delay bound guarantees into a second internal QoS class and to combine packets having a QoS class comprising no delivery guarantees into a third QoS class and to buffer the packets in buffers corresponding to their internal QoS classes; and

a scheduler operable to schedule transmission of the packets out of the buffers for transmission over the network based on their internal QoS class.